

PATENT ABSTRACTS OF JAPAN

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(54) ORGANIC ELECTROLYTE BATTERY

(57)Abstract:

PURPOSE: To decrease initial impedance and suppress increase in internal resistance after storage by forming an aluminum thin film on the surface, facing anode, of a separator placed between an anode and a cathode.

CONSTITUTION: Li is used as negative active material and MnO₂ or (CF)_n is used as positive active material. A separator comprising polypropylene nonwoven fabric impregnated with organic electrolyte is placed between negative and positive active materials. An aluminum thin film is formed on the surface, facing the active material, of the separator by vacuum thin film forming technique such as vacuum vapor deposition, sputtering, or ion plating. The thickness of the aluminum thin film is preferable to limit to 0.02~5μm.

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